

**15-DAY EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION**

**REGARDING PROPOSED CHANGES TO THE
2016 CALIFORNIA PLUMBING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5**

Legend for Express Terms:

1. **Existing California amendment:** California 45-Day language will appear in underlined and ~~strikeout~~.
2. **Amended, or repealed language:** Amended or repealed 15-Day language will appear in *italics and double underline* and ~~double strikeout~~.
3. **Rationale:** The justification for the change is shown after each section or series of related changes.
4. **Notation:** Authority and reference citations are provided at the end of each chapter.

EXPRESS TERMS

1. **BSC proposes to amend Chapter 2 as follows:**

**CHAPTER 2
DEFINITIONS**

220.0

Recycled Water Supply System. ~~*[BSC-CG] The building supply pipe, the water distribution pipes, and the necessary connecting pipes, fittings, control valves, backflow prevention devices, and all appurtenances carrying or supplying reclaimed (recycled) water in or adjacent to the building or within the premises.*~~

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: Based on 45-day public comment, CBSC is proposing this editorial change to align with similar amendments coordinated with the Department of Housing and Community Development (HCD) and the Department of Water Resources (DWR). There is no intended change in regulatory effect.

2. **CBSC proposes to amend Chapter 15, Section 1501 as follows:**

1501.2 System Design. Alternate water source systems shall be designed in accordance with this chapter by a registered design professional or who demonstrates competency to design the alternate water source system as required by the Authority Having Jurisdiction. Components, piping, and fittings used in any alternate water source system shall be listed. ~~*[BSC-CG] Alternate water source systems complying with this chapter shall be designed by a person who demonstrates competency to design the alternate water source system as required by the Enforcing Agency. The Enforcing Agency may also require plans and specifications to be prepared by a licensed design professional for Complex Systems. Components, piping, and fittings used in any alternate water source system shall be listed.*~~

Exceptions:

(1) A registered design professional is not required to design gray water systems having a maximum discharge capacity of 250 gallons per day (gal/d) (0.011 L/s) for single family and multi-family dwellings.

(2) A registered design professional is not required to design an on-site treated nonpotable water system for single family dwellings having a maximum discharge capacity of 250 gal/d (0.011 L/s).

(3) Irrigation design plans shall meet the requirements of the California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance.

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: CBSC's 45-day express terms initially proposed to co-adopt a reinstated HCD amendment inadvertently omitted from the 2016 California Plumbing Code, and to further modify the language by providing a reference to the California Code of Regulations, Title 23, Model Water Efficient Landscape Ordinance (MWELO). MWELO addresses irrigation design plans, which is currently not addressed by Section 1501.2.

Based on public comment received during 45-day and coordination with HCD and DWR, CBSC is withdrawing its 45-day proposed language and instead adopting the model code language, including the two exceptions that were also inadvertently omitted from the 2016 CPC. CBSC concurs with HCD that the model code language provides the same measures as CBSC's original 45-day proposal. This modification provides clarity and consistency for the code user and there is no intended change in regulatory effect.

1501.6 Operation and Maintenance Manual. *[BSC-CG]* An operation and maintenance manual for gray water, and on-site treated nonpotable water, and recycled water supply systems required to have a permit in accordance with Sections 1501.3, 1503.2 and 1504.2 shall be supplied to the building owner by the system designer *or installer*. The operating and maintenance manual shall include the following:

- (1) *Diagram(s)* of the entire system and the location of system components.
- (2) Instructions on operating and maintaining the system.
- (3) *Instructions* on maintaining the required water quality *for on-site treated nonpotable water systems*.
- (4) Details on *startup, shutdown, and* deactivating the system for maintenance, repair, or other purposes.
- (5) Applicable testing, inspection, and maintenance frequencies in accordance with *Section 1501.5* ~~or Section 1503.15 as applicable~~.
- (6) A method of contacting the *installer and/or* manufacturer(s).
- (7) *Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.*

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: Based on 45-day public comment and coordination with DWR, CBSC is removing "or Section 1503.15 as applicable" because CBSC is not co-adopting DWR's amendments to Section 1503 during this cycle.

1501.11.2.2 Cross-Connection Test. ~~The procedure for determining cross-connection shall be followed by the applicant.~~ A cross-connection test shall be performed in the presence of the Authority Having

Jurisdiction ~~and~~ or other authorities having jurisdiction to determine whether a cross connection has occurred as follows:

- (1) The potable water system shall be activated and pressurized. The alternate water source system shall be shut down, depressurized, and drained.
- (2) The potable water system shall
- (3)
- (4)
- (5) The alternate water source system shall then be activated and pressurized. When an alternate water source is not available for the initial test, a temporary connection to a potable water supply ~~will~~ shall be required. At the conclusion of the test, the temporary connection to the potable water supply shall be disconnected.
- (6)

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: Based on 45-day public comment, CBSC proposes this editorial correction in coordination with HCD and DWR to replace “will” with “shall”. There is no intended change in regulatory effect.

3. CBSC proposes to amend Chapter 15, Section 1502 as follows:

1502.3 Connections to Potable and Reclaimed (Recycled) Water Systems. Gray water systems shall have no ~~direct unprotected~~ connection to a potable water supply, on-site treated nonpotable ~~gray~~ water supply, or reclaimed (recycled) water supply systems.

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: Based on 45-day public comment and coordination with HCD and DWR, CBSC is removing the word “gray” because this section is addressing connections to on-site treated nonpotable water, which is not inclusive of graywater (see definition of “on-site treated nonpotable water”). There is no intended change in regulatory effect.

4. CBSC proposes to amend Chapter 15, Section 1504 as follows:

1504.4 Connections to Potable or Reclaimed (Recycled) Water Systems. On-site treated nonpotable ~~gray~~ water systems shall have no ~~direct unprotected~~ connection to a potable water supply or reclaimed (recycled) water supply-source system.

Exceptions:

1. Potable or reclaimed (recycled) water is permitted to be used as makeup water for a non-pressurized storage tank provided the makeup water supply inlet is protected by an air gap, ~~reduced-pressure principle backflow preventer, or other physical device which prevents backflow~~ in accordance with this code.

2. A potable water supply may be connected temporarily for initial testing of the on-site treated nonpotable gray water system as required in Section 1501.11.2.2.

Notation:

Authority: Health and Safety Code Sections 18928, 18930.5, 18934.5, and 18940.6

Reference: Health and Safety Code Section 18928.1 and 18940.6

Rationale: For the 45-day public comment period, which ended on May 1, 2017, CBSC initially proposed to modify the existing language in Section 1504.4 to match the language in the model code, and to provide consistency with Title 17 of the California Code of Regulations. After coordination with HCD and DWR, CBSC proposes a modification to the original proposal to align with the DWR amendment. The proposed modification provides clarity and consistency to the code user. There is no intended change in regulatory effect.